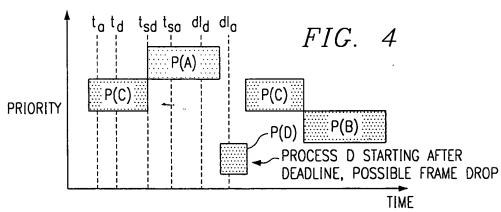


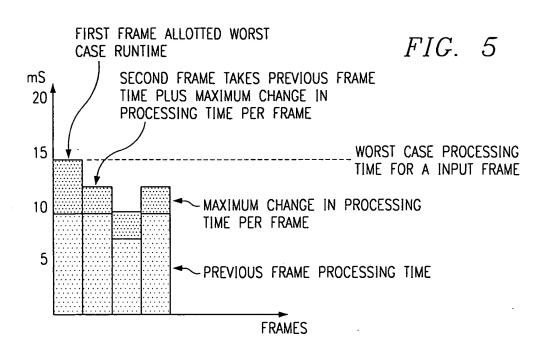
 t_{SG} = LAST POSSIBLE TIME FOR PROCESS A TO START AND STILL MAKES ITS DEADLINE

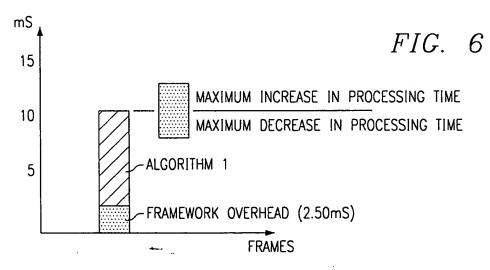
 t_{sd} = LAST POSSIBLE TIME FOR PROCESS D TO START AND STILL MAKE ITS DEADLINE

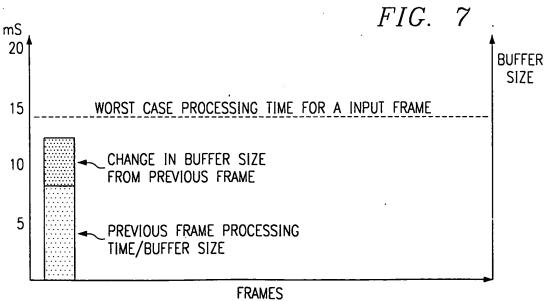


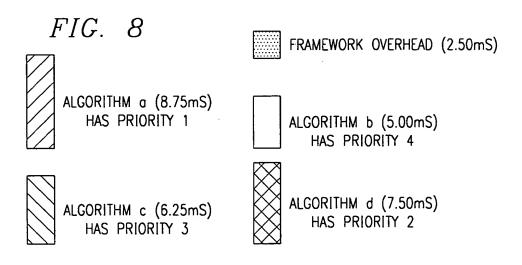
 \mathfrak{t}_{SO} = LAST POSSIBLE TIME FOR PROCESS A TO START AND STILL MAKES ITS DEADLINE

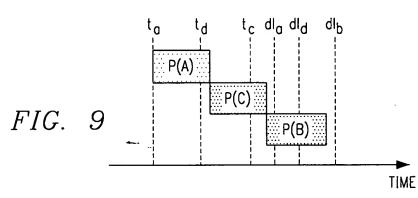
 t_{sd} = LAST POSSIBLE TIME FOR PROCESS D TO START AND STILL MAKE ITS DEADLINE







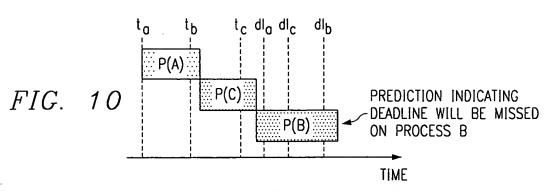




t; = TIME STAMP ARRIVAL OF EACH DATA FRAME FOR THE RESPECTIVE PROCESS

di; = DEADLINE FOR FINISHING PROCESSING OF EACH RECEIVED DATA FRAME

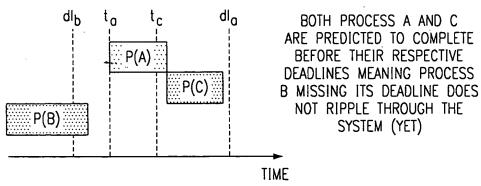
P() = PREDICTION OF PROCESSING TIME FOR EACH RECEIVED DATA FRAME



t; = TIME STAMP ARRIVAL OF EACH DATA FRAME FOR THE RESPECTIVE PROCESS

dl; = DEADLINE FOR FINISHING PROCESSING OF EACH RECEIVED DATA FRAME

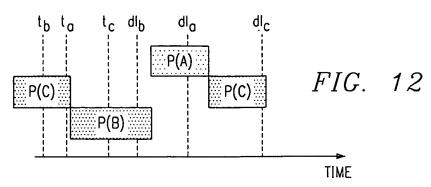
P() = PREDICTION OF PROCESSING TIME FOR EACH RECEIVED DATA FRAME



t; = TIME STAMP ARRIVAL OF EACH DATA FRAME FOR THE RESPECTIVE PROCESS

di; = DEADLINE FOR FINISHING PROCESSING OF EACH RECEIVED DATA FRAME

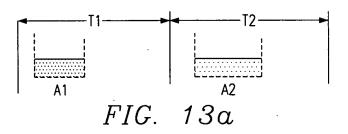
P() = PREDICTION OF PROCESSING TIME FOR EACH RECEIVED DATA FRAME FIG. 11

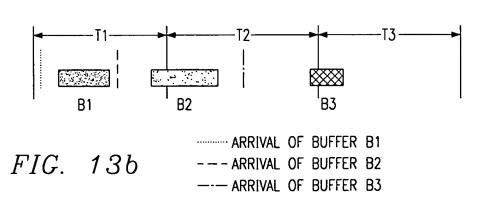


t; = TIME STAMP ARRIVAL OF EACH DATA FRAME FOR THE RESPECTIVE PROCESS

dI; = DEADLINE FOR FINISHING PROCESSING OF EACH RECEIVED DATA FRAME

P() = PREDICTION OF PROCESSING TIME FOR EACH RECEIVED DATA FRAME





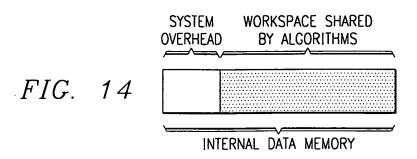


FIG. 15

STACK
REQUIREMENTS
REQUIREMENTS

ALGORITHM WORKSPACE COMPONENTS

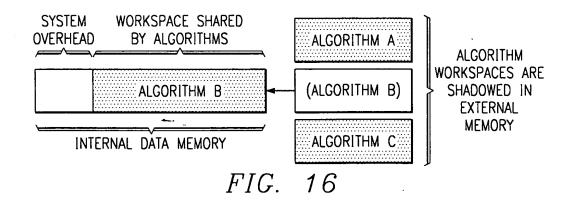


FIG. 17

STACK
PERSISTENT
NON-PERSISTENT
MEMORY
REQUIREMENTS
REQUIREMENTS
REQUIREMENTS

ALGORITHM WORKSPACE COMPONENTS TO TRANSFER ON CONTEXT SWITCH

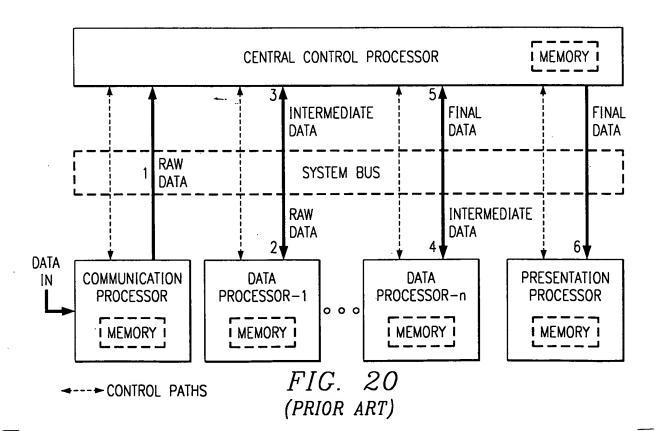
REQUIREMENTS

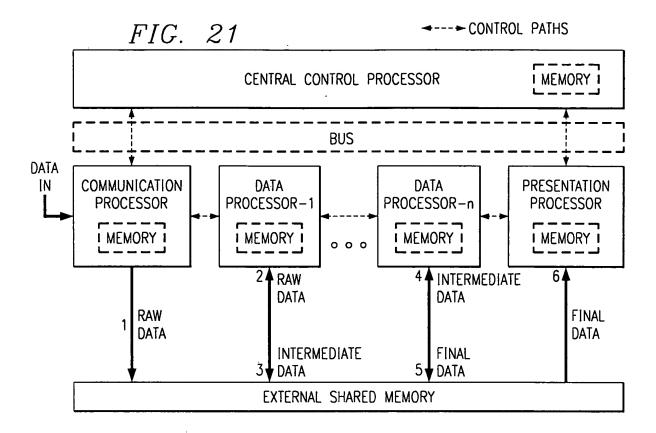
ALGORITHM WORKSPACE COMPONENTS TO TRANSFER IN PRIOR TO ALGORITHM EXECUTION IF ALGORITHM REQUIRES CONSTANT TABLES (CONTEXT SWITCH IN ONLY)

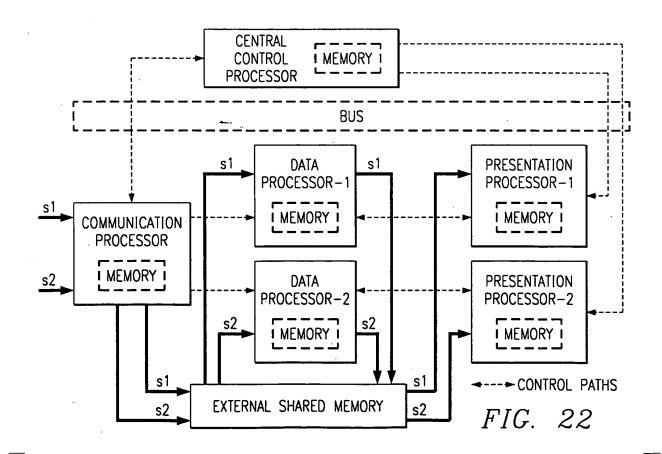
		DEDCICTENT	
CT+ OV		1	₩ NON-PFRSISTENT #
	MEMORY	READ ONLY	
REQUIREMENTS	COMPENSATE COM	MEMORY	DEVILLENEVIL
	REQUIREMENTS	**********	IVEQUIVENIENTO

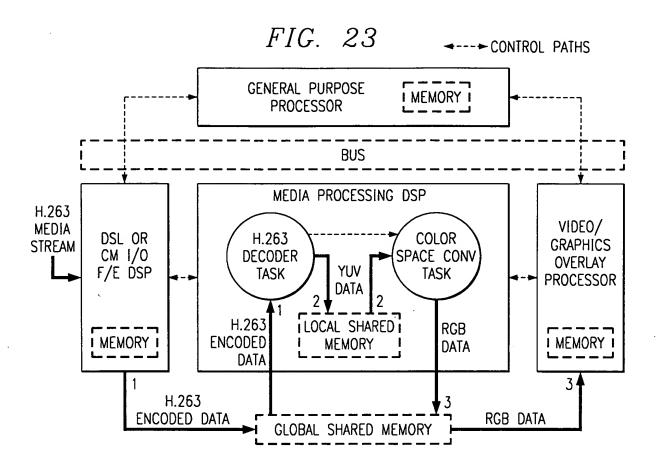
READ ONLY PERSISTENT MEMORY DOES NOT NEED TO BE TRANSFERRED OUT ON CONTEXT SWITCH. THEREFORE ALGORITHM PAGE CHANGE-OUT IS MORE EFFICIENT.

FIG. 19









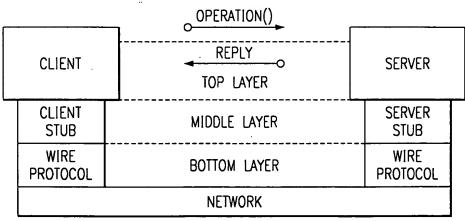
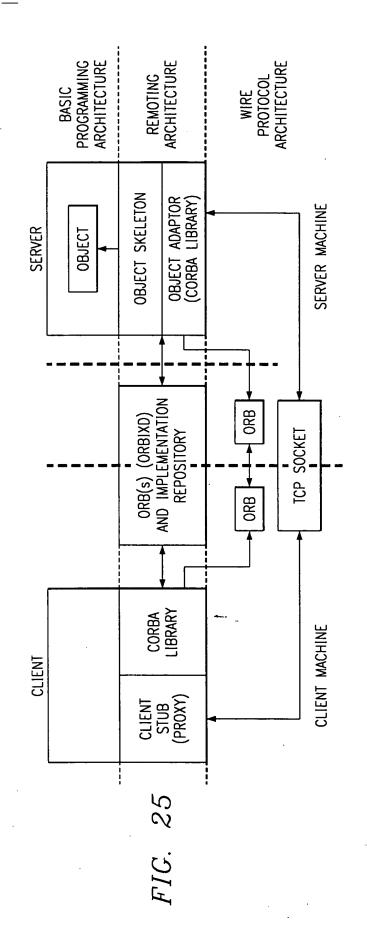
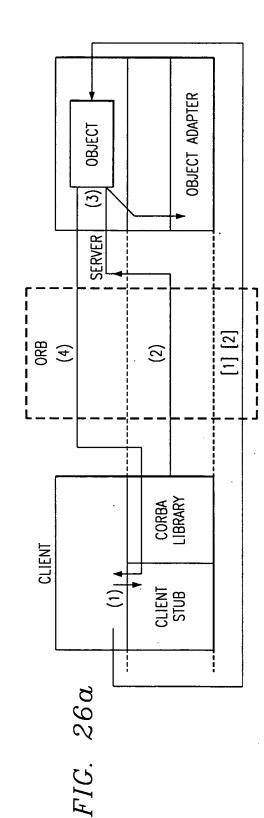
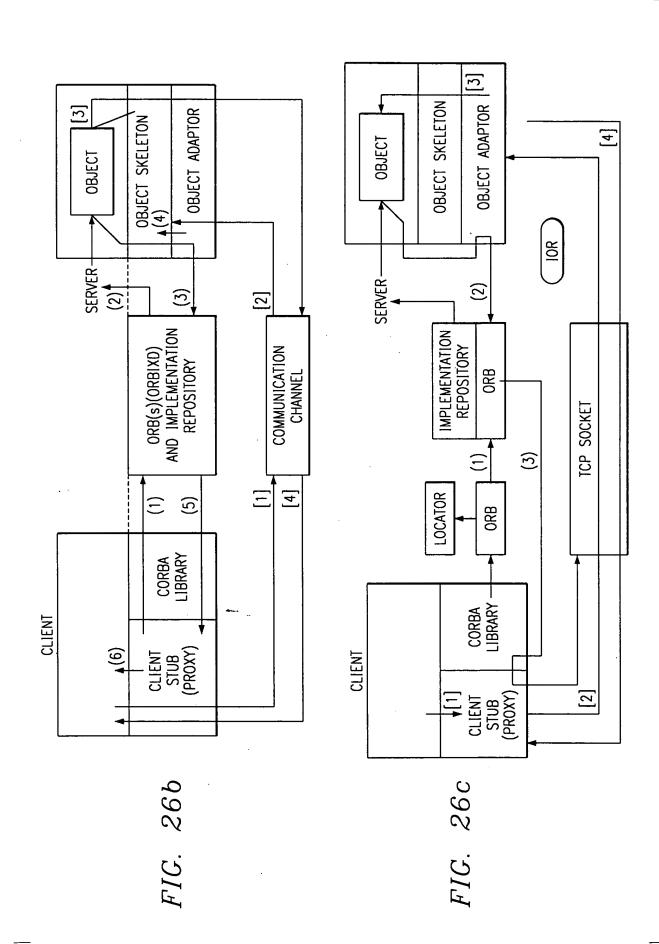


FIG. 24





, q.• - b



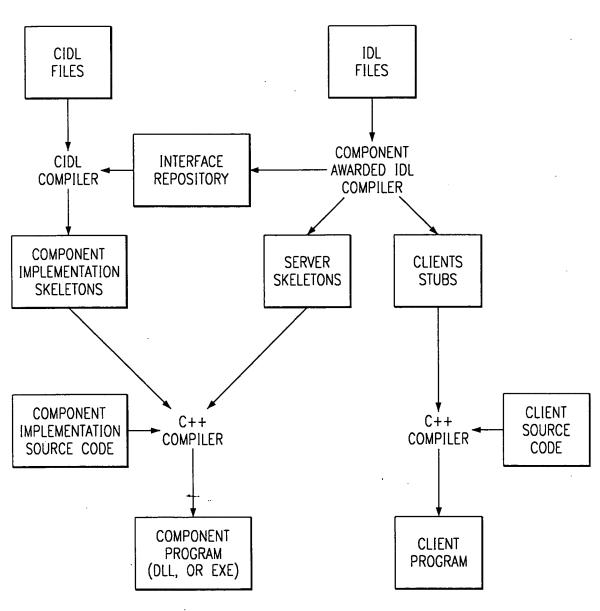


FIG. 27